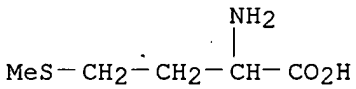
OTHER NAMES:
CN (.+-.)-Methionine
CN .alpha.-Amino-.gamma.-methylmercaptobutyric acid
CN Acimetion
CN Amurex
CN Banthionine
CN Cynaron
CN DL-2-Amino-4-(methylthio)butyric acid
CN Dyprin
CN Lactet
CN Lobamine
CN Meonine
CN Methilanin
CN Metione
CN Neston
CN Pedameth
CN Racemethionine
CN Urimeth
FS 3D CONCORD
MF C5 H11 N O2 S
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DETHERM*, DIOGENES, EMBASE, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PIRA, PROMT, RTECS*, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**, WHO
(**Enter CHEMLIST File for up-to-date regulatory information)



m=0
n=2 X = COOR1
R1 = H
Y is NR2R3
R2 = H
R3 = H

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2871 REFERENCES IN FILE CA (1957 TO DATE)
63 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
2874 REFERENCES IN FILE CAPLUS (1957 TO DATE)
3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

= Formula

TI D-**Methionine** provides excellent protection from cisplatin **ototoxicity** in the rat.
AN 1997:33825 BIOSIS
DN PREV199799340228
TI D-**Methionine** provides excellent protection from cisplatin **ototoxicity** in the rat.
AU Campbell, Kathleen C. M. (1); Rybak, Leonard P.; Meech, Robert P.; Hughes, Larry
CS (1) Div. Otolaryngology, Dep. Surgery, SIU Sch. Med., P.O. Box 19230, Springfield, IL 62794-1618 USA
SO Hearing Research, (1996) Vol. 102, No. 1-2, pp. 90-98.
ISSN: 0378-5955.
DT Article
LA English
AB Cisplatin (CDDP) is a widely used chemotherapeutic agent. Unfortunately, CDDP is highly ototoxic. We tested D-**methionine** (D- Met), a sulfur containing compound, as an otoprotectant in male Wistar rats. Complete data sets were obtained for five groups of five animals each, including a treated control group (16 mg/kg CDDP), an untreated control group (administered an equivalent volume of saline) and three groups that received either 75, 150, or 300 mg/kg D-Met 30 min prior to the 16 mg/kg CDDP dosing. Auditory brainstem response (ABR) thresholds were obtained in response to clicks, and 1 kHz, 4 kHz, 8 kHz, and 14 kHz toneburst stimuli, before and 3 days after drug administration. Scanning electron microscopy (SEM) was used to examine the outer hair cells of the apical, middle and basal turns of the cochlea. Animal weight was measured on the first and final day. D-Met provided excellent otoprotection even at the lowest level with complete otoprotection obtained for the 300 mg/kg dosing as measured by both ABR and SEM. D-Met also markedly reduced weight loss and mortality. All animals receiving D-Met (15/15) survived to the end of the study period as opposed to only 5/10 of the treated controls.
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IT Major Concepts
Biochemistry and Molecular Biophysics; Nervous System (Neural Coordination); Pharmacology; Toxicology
IT Chemicals & Biochemicals
D-**METHIONINE**; CISPLATIN; **METHIONINE**
IT Miscellaneous Descriptors
ANALYTICAL METHOD; AUDITORY BRAINSTEM RESPONSE; CISPLATIN; D-**METHIONINE**; EAR DISEASE; MALE; **METHIONINE**; **OTOTOXICITY**; PHARMACOLOGY; SCANNING ELECTRON MICROSCOPY; SENSE ORGANS; TOXICITY; TOXICOLOGY; TOXIN
RN 348-67-4 (D-**METHIONINE**)
15663-27-1 (CISPLATIN)
63-68-3 (**METHIONINE**)